

Substitute for form 1449A/PTO

**Complete if Known**

Application Number	10/508,737
Filing Date	September 21, 2004
First Named Inventor	Adolf Bernds
Group Art Unit	Not Assigned
Examiner Name	Not Assigned
Attorney Docket Number	411000-121

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1

Of 11

**U.S. PATENT DOCUMENTS**

Examiner Initial*	Cite No. <sup>1</sup>	Document Number Number-Kid Code <sup>2</sup> (if known)	Publication- Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/TC/	1	US-5,574,291	11/12/1996	Dodabalapur et al.	See IDS filed 9/30/2004 on all references cited
/TC/	2	US-5,206,525	04/27/1993	Yamamoto et al.	
/TC/	3	US-6,045,977	04/04/2000	Chandross et al.	
/TC/	4	US-5,854,139	12/29/1998	Kondo et al.	
/TC/	5	US-5,625,199	04/29/1997	Baumbach et al.	
/TC/	6	US-5,883,397	03/16/1999	Isoda et al.	
/TC/	7	US-5,998,805	12/07/1999	Shi et al.	
/TC/	8	US-6,384,804	05/07/2002	Dodabalapur et al.	
/TC/	9	US-6,072,716	06/06/2000	Jacobsen et al.	
/TC/	10	US-4,937,119	06/26/1990	Nickles et al.	
/TC/	11	US-5,705,826	01/06/1998	Aratani et al.	
/TC/	12	US-6,555,840	04/29/2003	Hudson et al.	
/TC/	13	US-6,197,663	03/06/2001	Chandross et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initial*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication- Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
/TC/	14	EU 0460242	12/11/1991			X
/TC/	15	WO 93 16491	08/19/1993			X
/TC/	16	WO 99 40631	08/12/1999			X
/TC/	17	WO 99 54936	10/28/1999			X
/TC/	18	EP 0981165	02/23/2000			X

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Date Considered

07/25/2008

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Sheet 2 11 Attorney Docket Number 411000-121

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/TC/	19	US-6,221,553	04/24/2001	Wolk et al.	
/TC/	20	US-6,150,668	11/21/2000	Bao et al.	
/TC/	21	US-6,362,509	03/26/2002	Hart	
/TC/	22	US-6,329,226	12/11/2001	Jones et al.	
/TC/	23	US-6,593,690	07/15/2003	McCormick et al.	
/TC/	24	US-6,498,114	12/24/2002	Amundson et al.	
/TC/	25	US-6,603,139	08/05/2003	Tessler et al.	
/TC/	26	US-6,621,098	09/16/2003	Jackson et al.	
/TC/	27	US-4,340,657	07/20/1982	Rowe	
/TC/	28	US-5,364,735	11/15/1994	Akamatsu et al.	
/TC/	29	US-6,330,464	12/11/2001	Colvin et al.	
/TC/	30	US-5,691,089	11/25/1997	Smayling	
/TC/	31	US-6,321,571	11/27/2001	Themont et al.	

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/TC/	32	WO 99 30432	06/17/1999			X
	33	EP 0 108650	05/16/1984			X
/TC/	34	EP 0 418504	03/27/1991			X
	<del>35</del>	<del>DE 100 54 700</del>	<del>05/04/00</del>			

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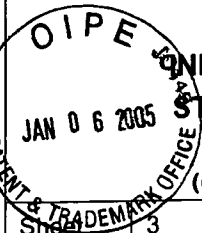
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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
 <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	10/508,737
		Filing Date	September 21, 2004
		First Named Inventor	Adolf Bernds
		Group Art Unit	Not Assigned
		Examiner Name	Not Assigned
Attorney Docket Number	411000-121		

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/TC/	37	US-6,087,196	07/11/2000	Sturm et al.	
/TC/	38	US-6,133,835	10/17/2000	De Leeuw et al.	
/TC/	39	US-5,970,318	10/19/1999	Choi et al.	
/TC/	40	US-5,321,240	06/14/1994	Takahira	
/TC/	41	US-5,973,598	10/26/1999	Beigel	
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/TC/	43	US-6,207,472	03/27/2001	Calligari et al.	
/TC/	44	US-5,486,851	01/23/1996	Gehner et al.	
/TC/	45	US-2002/0053320	05/09/2002	Duthaler	
/TC/	46	US-2004/0084670	05/06/2004	Tripsas et al.	
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Examiner Initial*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication- Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	48	EP 0 786820	07/30/1997			X
/TC/	49	WO 99 39373	08/05/1999			X
/TC/	50	WO 02/47183	06/13/2002			X
/TC/	51	EP 1 103916 (title page only)	05/30/2001			
/TC/	52	EP 0 528662	02-1993			
/TC/	53	EP 0 442123				

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First Named Inventor		Adolf Bernds	
Group Art Unit		Not Assigned	
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Sheet	4	11	

U.S. PATENT DOCUMENTS					
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/TC/	54	EP 0962984	12/08/99			X
/TC/	55	WO 02 19443	03/07/02			X
/TC/	56	WO 00 79617	12/28/04			X
/TC/	57	WO 99 10939	03/04/99			X
	58	DE 100 43204	04/04/2002			
/TC/	59	EP 0 511807	11/04/1992			X
	60	EP 0 979715	02/16/2000			
/TC/	61	EP 1 048 912	11/02/2000			
	62	DE 4243832	06/30/04			
/TC/	63	EP 0716458	06/12/1996			X
/TC/	64	WO 99 21233	04/29/1999			X
/TC/	65	WO 01 15233	03/01/2001			X
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Sheet 5

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/TC/	66	WO 98/40930	09/17/98			X
	<del>67</del>	<del>DE 10000757</del>	<del>01/25/01</del>			
	<del>68</del>	<del>FR 2700000</del>	<del>11/03/2000</del>			
/TC/	69	WO 01 47045	06/28/2001			X
/TC/	70	WO 94/17556	08/04/1994			X
/TC/	71	WO 99/07189	02/11/1999			X
/TC/	72	WO 97/18944	05/29/1997			X
	<del>73</del>	<del>EP 0003565</del>	<del>12/06/1995</del>			X
/TC/	74	WO 00/36666	06/22/2000			X
	<del>75</del>	<del>DE 100 42204 (file page)</del>	<del>08/20/2001</del>			
	<del>76</del>	<del>DE 100 46 860</del>	<del>11/18/00</del>			
/TC/	77	WO 02/065557	08/22/2002			X
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/TC/	79	JP 05259434	10/05/1993			X
/TC/	80	WO 99/10929 (title page only)	03/04/1999			X
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	82	DE 199 37 262	03/01/2001			
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Examiner Name	Not Assigned
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**NON PATENT LITERATURE DOCUMENTS**

Examiner Initial*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/TC/	88	GARNIER F et al.; "Vertical Devices Architecture By Molding Of Organic-Based Thin Film Transistor", Applied Physics Letters, American Institute Of Physics. XP000784120, issn: 0003-6951 abbildung 2	X
/TC/	89	COLLET J. et al.; "LOW VOLTAGE, 30 NM CHANNEL LENGTH, ORGANIC TRANSISTORS WITH A SELF-ASSEMBLED MONOLAYER AS GATE INSULATING FILMS", APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, Bd 76, Nr. 14, 3. april 2000 (2000-04-03), Seiten 1941-1943, XP000950589, ISSN:0003-6951, das ganze Dokument	X
/TC/	90	HWANG J D et al.; "A Vertical Submicron Sic thin film transistor", Solid State Electronics, Elsevier Science Publishers, Barking, GB, Bd. 38, NR. 2,1. February 1995 (1995-02-01), Seiten 275-278, XP004014040, ISSN:0038-1101, Abbildung 2	X
/TC/	91	ROGERS J A et al.; "Low-Voltage 0.1 Mum Organic Transistors and Complementary Inverter Circuits Fabricated with a Low-Cost Form of Near-Field Photolithography", Applied Physics Letters, American Institute of Physics. New York, US, Bd. 75, Nr. 7, 16. August 1999 (1999-08-16), Seiten 1010-1012, XP000934355, ISSN: 003-6951, das ganze Dokument	X
/TC/	92	"Short-Channel Field-Effect Transistor", IBM Technical Disclosure Bulletin, IBM Corp., New York, US, Bd. 32, Nr. 3A, 1.August 1989 (1989-08-01), Seiten 77-78, XP000049357, ISSN:0018-8689, das ganze Dokument	X
/TC/	93	REDECKER, M. et al., "Mobility enhancement through homogeneous nematic alignment of a liquid-crystalline polyfluorene", 1999 American Institute of Physics, Applied Physics Letters, Vol. 74, number 10, pp. 1400-1402.	X
/TC/	94	ROGERS, J. A. et al.; "Printing Process Suitable for Reel-to-Reel Production of High-Performance Organic Transistors and Circuits", Advanced Materials, VCH, Verlagsgesellschaft, Weinheim, DE, Bd. 11, Nr. 9, 5. Juli 1999 (1999-07-05), Seiten 741-745, P000851834, ISSN: 0935-9648, das ganze Dokument	X
/TC/	95	MIYAMOTO, Shoichi et al.; "Effect of LDD Structure and Channel Poly-Si Thinning on a Gate-All-Around TFT (GAT) for SRAM's, IEEE Transactions on Electron Devices. Vol. 46, No. 8, August 1999	X
/TC/	96	KUMAR, Anish et al.; "Kink-Free Polycrystalline Silicon Double-Gate Elevated-Channel Thin-Film Transistors", IEEE Transactions on Electron Devices, Vol. 45, No. 12, December 1998	X
/TC/	97	CHEN, Shiao-Shien et al.; "Deep Submicrometer Double-Gate Fully-Depleted SOI PMOS Devices: A Concise Short-Channel Effect Threshold Voltage Model Using a Quasi-2D Approach", IEEE Transaction on Electron Devices, Vol. 43, No. 9, September 1996	X

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Sheet

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Application Number

10/508,737

Filing Date

September 21, 2004

First Named Inventor

Adolf Berndt

Group Art Unit

Not Assigned

Examiner Name

Not Assigned

Attorney Docket Number

411000-121

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initial*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	98	ZANGARA L: "Metall Statt Halbleiter, Programmierung Von Embedded ROMS Ueber Die Metallisierungen", Elektronik, Franzis Verlag GMBH, Munchen, DE, Bd. 47, Nr. 10, 4 August 1998 (1998-08-04), Seiten 52-55, XP000847917, ISSN: 0013-5658, Seite 52, rechtes Plate, Zeile 7-Seite 53, linke Spalte, Zeile 14; Abbildungen 1, 2	
/TC/	99	HERGEL, H. J.: "Pld-Programmiertechnologien", Elektronik, Franzis Verlag GMBH, Munchen, DE, Bd 41, Nr. 5, 3. Marz 1992 (1992-03-03), Seiten 44-46, XP000293121, ISSN: 0013-5658, Abbildungen 1-3.	
/TC/	100	FORREST et al.: "The Dawn of Organic Electronics", IEEE Spectrum, August 2000 (2000-08), Seiten 29-34, XP002189000, IEEE Inc., New York, US ISSN:0018-9235, Seite 33, rechte Spalte, Zeile 58-Seite 34, linke Spalte, Zeile 24; Abbildung 5.	X
/TC/	101	PATENT ABSTRACTS OF JAPAN, Vol. 009, No. 274 (E-354), 31 Oktober 1985 (1985-10-31) & JP 60 117769 A (Fujitsu KK), 25 Juni 1985 (1985-06-25) Zusammenfassung	X
/TC/	102	ZIE VOOR TITEL BOEK, de 2e PAGINA, XP-002189001, PG 196-228.	X
/TC/	103	DRURY et al., "Low-Cost All-Polymer Integrated Circuits", American Institute of Physics, Applied Physics Letters, 1998, Vol. 73, No. 1, pp 108-110, July 6, 1998.	X
	104	KUHL MANN et al. "Terabytes in Plastikfolie", Organische Massenspeicher vor der Serienproduktion	
/TC/	105	GARNIER, F. et al, "All-Polymer Field-Effect Transistor Realized by Printing Techniques", Science, American Association for the Advancement of Science, US, vol 265, 16 September 1994, pp 1684-1686.	X
/TC/	106	ASSADI A, et al.; "Field-Effect Mobility of Poly (3-Hexylthiophene) Dept. of Physics and Measurement Technology, Received 3 March 1988; accepted for Publication 17 May 1988	X

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Sheet	9	11	Attorney Docket Number	411000-121
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/TC/	107	BAO, Z. et al., "High-Performance Plastic Transistors Fabricated by Printing Techniques", Chem. Mater Vol. 9, No. 6, 1997, pp 1299-1301.	X
/TC/	108	HEBNER, T.R. et al., "Ink-jet printing of doped polymers for organic light emitting devices", American Institute of Physics, Applied Physics Letters, Vol. 72, no. 5, February 2, 1998, pages 519-521.	X
/TC/	109	ANGELOPOULOS M et al, "In-Situ Radiation Induced Doping", Mol. Cryst. Liq. Cryst. 1990, vol. 189, pp. 221-225.	X
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	<del>111</del>	<del>ROMAN et al, "POLYMER DIODES WITH HIGH RECTIFICATION", Applied Physics Letters, Vol. 75, No. 24, November 22, 1999</del>	<del>X</del>
	<del>112</del>	<del>PATENT ABSTRACTS OF JAPAN, Vol. 010, No. 137, May 21, 1986 (JP 361001060A)</del>	<del>X</del>
/TC/	113	SCHOEBEL, "Frequency Conversion with Organic-On-Inorganic Heterostructured Diodes", Extended Abstracts of the International Conference on Solid State Devices and Materials, September 1, 1997	X
/TC/	114	BRAUN D., et al, "Visible light emission from semiconducting polymer diodes", American Institute of Physics, Applied Physics Letters 58, May 6, 1991, pages 1982 - 1984.	X
/TC/	115	YU, G. et al., "Dual-function semiconducting polymer devices: Light-emitting and photodetecting diodes", American Institute of Physics, Applied Physics Letter 64, March 21, 1994, pages 1540 - 1542.	X
/TC/	116	LUCENT TECHNOLOGIES, "Innovation marks significant milestone in the development of electronic paper", Cambridge, MA and Murray Hill, NJ, November 20, 2000. XP-002209726.	X
	117		

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Application Number	10/508,737
Filing Date	September 21, 2004
First Named Inventor	Adolf Berndt
Group Art Unit	Not Assigned
Examiner Name	Not Assigned
Attorney Docket Number	411000-121

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/TC/	118	GARNIER et al., "Conjugated Polymers and Oligomers as Active Material For Electronic Devices", Synthetic Metals, Vol. 28, 1989	X
/TC/	119	GELINCK, G.H. et al., "High-Performance All-Polymer Integrated Circuits", Applied Physics Letters, v. 77, 2000, pp. 1487-1489.	X
/TC/	120	ZHENG, Xiang-Yang et al., "Electrochemical Patterning of the Surface of Insulators with Electrically Conductive Polymers", J. Electrochem. Soc., v. 142, 1995, pp L226-L227.	X
/TC/	121	LIDZEY, D. G. et al., "Photoprocessed and Micropatterned Conjugated Polymer LEDs", Synthetic Metals, V. 82, 1996, pp. 141-148	X
/TC/	122	KOBEL W. et al., "Generation of Micropatterns in Poly (3-Methyl-Thiophene) Films Using Microlithography: A First Step in the Design of an All-Organic Thin-Film Transistor" Synthetic Metals, V. 22, 1988, pp. 265-271.	X
/TC/	123	ROST, Henning et al., "All-Polymer Organic Field Effect Transistors", Proc. Mat. Week, CD, 2001, pp. 1-6	X
/TC/	124	MANUELLI, Alessandro et al., "Applicability of Coating Techniques for the Production of Organic Field Effect Transistors", IEEE Polytronic 2002 Conference, 2002, pp. 201-204.	X
	125	<del>LIU, MAN, A. et al., "High Performance Organic Field-Effect Transistors and Integrated Inverters", Mat. Res. Soc. Symp. Proc., v. 665, 2001, pp. 265-270.</del>	<del>X</del>
	126	<del>FIX, W. et al., "Fast Polymer Integrated Circuits Based on a Polyfluorene Derivative" ESSDERC 2002, 2002, pp. 527-529.</del>	<del>X</del>
/TC/	127	KNOBLOCH, A. et al., "Printed Polymer Transistors", Proc. Polytronic, v. 84, 2001, pp. 84-89	X
/TC/	128	FICKER, J. et al., "Dynamic and Lifetime Measurements of Polymer OFETS and Integrated Plastic Circuits," Proc. of SPIE, v. 466, 2001, pp. 95-102	X
	129	<del>CLEMENS, W. et al., "Vom Organischen Transistor Zum Plastik-Chip," Physik Journal, v. 2, 2003, pp. 31-36.</del>	<del>X</del>

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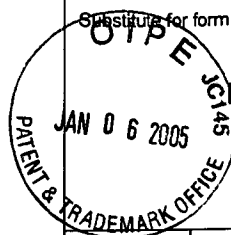
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First Named Inventor	Adolf Berndt
Group Art Unit	Not Assigned
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/TC/	125	CRONE, B. ET AL, "Large-scale complementary Integrated circuits based on Organic transistors", Nature, Vol. 403, Feb. 3, 2000, PP. 521 -	X
/TC/	126	FIX, W., et al., "Fast polymer integrated circuits", American Institute of Physics, Applied Physics Letters, Vol. 81, No. 89, August 2002, pp. 1735-1737.	X
/TC/	127	DODABALAPUR, A. et al., Organic smart pixels", American Institute of Physics, Applied Physics Letters, Vol. 73, No. 2, July 13, 1998, pp. 142 - 144.	X
	<del>128</del>	<del>HALL, J. M., et al., "Efficient photodiodes from interpenetrating polymer networks", Nature, Vol. 376, August 10, 1995, pp. 498 - 500.</del>	X
/TC/	129	BROWN, A.R. et al., "Field-effect transistors made from solution-processed organic semiconductors", Elsevier Science, S.A., Synthetic Metals 88 (1997) pp. 37-55	X
	<del>130</del>	<del>BROWN, A.R. "Logic Gates Made from Polymer Transistors and Their Use in Ring Oscillators", Science, Vol. 270, November 10, 1995, pp 972 - 974</del>	X
/TC/	131	KLAUK, H. et al., "Pentacene Thin Film Transistors and Inverter Circuits", 1997 International Electron Devices Meeting Technical Digest, pages 539-542, December 1997	X
/TC/	132	KLAUK, H. et al., "Fast Organic Thin Film Transistor Circuits", IEEE Electron Device Letters, Vol. 20, no. 6, pages 289-291	X
	133	BAO, Z. et al., "Organic and Polymeric Materials for the Fabrications of Thin Film Field-Effect Transistors", paper presented at the meeting of American Chemical Society, Division of Polymer Chemistry, Vol. 94, Pt. 80, Nr. 1, 29 Marz 1998 (1998-03-29), P001032497, ISSN: 0032-3934 das ganze Dokument	X
	134	PATENT ABSTRACTS OF JAPAN, vol 013, no. 444 (E-828), 5 Oktober 1989 (1989-10-05) & JP 01 169942 A (Hitachi Ltd), 5 July 1989	

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